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## INSPECTION REPORT

APPLICABLE DOC. REF.

PROC. REF.

AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001

N.A.

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ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM - BOARDS - Inspection Point.

## REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

## DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 5 May 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

- 1) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/H.
- PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/G.
- 3) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/F.
- 4) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/E.
- 5) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/A.
- 6) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/B.
- 7) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/C.
- 8) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/D.
- 9) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07/038/A.
- 10) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07/038/B.
- 11) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/A.
- 12) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/B.
- 13) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/C.
- 14) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/D.
- 15) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/E.
- 16) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/F.
- 17) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/G.
- 18) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/H.

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INSPECTION (Action/Results)

# HARDWARE REVIEW

1) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/H, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-011(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

• 11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

2) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/G, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-012(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

• 11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

3) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/F, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-013(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

11-AMS02PDS-720.01 rev A - A1 can be considered closed.

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4) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/E, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-014(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

• 11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

5) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/A, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-015(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

• 11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

6) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/B, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-016(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

11-AMS02PDS-720.01 rev A - A1 can be considered closed.

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## INSPECTION (Action/Results)

7) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/C, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-017(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

8) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/D, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

The following NCR was presented during the inspection:

NCR-PDS-CGS-C-018(electronic components assembly problems), NCR classified "minor" is still
open during the inspection activity, the following corrective actions will be performed: glue the
components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

The following PLVS (Parts List Variation Sheet) was presented during the inspection:

• 11-AMS02PDS-720.01 rev A - A1 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

9) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07/038/A, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A A2 can be considered closed.

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10) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07/038/B, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A A2 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

11) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/A, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.
- 11-AMS02PDS-730.01 rev A A3 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

12) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/B, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.
- 11-AMS02PDS-730.01 rev A A3 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

13) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/C, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.

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14) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/D, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

15) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/E, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

16) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/F, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.

The H/W has been visually inspected and is ok:no damage, visible clean is ok.

17) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/G, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) ware presented during the inspection:

- 11-AMS02PDS-730.01 rev A A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A A2 can be considered closed.
- 11-AMS02PDS-730.01 rev A A3 can be considered closed.

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18) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS0FSL-030141-DR-03-CGS rev./.	020/H, Assy:11-AMS02PDS-730.00 02PDS-730.02 rev.A, Master PCB:			
The following PLVSs (Parts List Variation Sheet) ware presented during the	inspection:			
<ul> <li>11-AMS02PDS-730.01 rev A - A1 can be considered closed.</li> </ul>				
11-AMS02PDS-730.01 rev A - A2 can be considered closed.				
11-AMS02PDS-730.01 rev A - A2 can be considered closed.				
The H/W has been visually inspected and is ok:no damage, visible clean is	ok.			
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#### CONCLUSION

All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.

The open points are here listed:

- NCR-PDS-CGS-C-011(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- NCR-PDS-CGS-C-012(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 3) NCR-PDS-CGS-C-013(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 4) NCR-PDS-CGS-C-014(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 5) NCR-PDS-CGS-C-015(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 6) NCR-PDS-CGS-C-016(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 7) NCR-PDS-CGS-C-017(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.
- 8) NCR-PDS-CGS-C-018(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the components with adhesive EC 2216 B/A, perform a visual inspection of the previous reworks.

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